400 Seventh Street, S.W. Washington, D.C. 20590



U.S. Department of Transportation

National Highway Traffic Safety Administration

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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH SECTION

Division of Arvin/Calspan Buffalo, New York 14225

CALSPAN LIMITED ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 91-1

FLEET - 1988 ACURA LEGEND LS

LOCATION - OH

ACCIDENT DATE - 1991

Contract No. DTNH22-87-C-27169

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 91-1

FLEET - 1988 ACURA LEGEND LS LOCATION - OH

PRELIMINARY SUMMARY

This crash occurred at a four-leg intersection in the Common OH area in the latter part of the latter part o

At the time of the accident, the Acura was driven by an adult female who was 62" tall and weighed approximately 125 lbs. She was wearing the active 3-point lap and shoulder belt system. Belt usage was supported by a black loading transfer from the B-pillar mounted D-ring on the shoulder belt webbing. The diagonal transfer was located 55" upstream from the latchplate or 10.25" from the fully extended end of the shoulder belt webbing. The location of the D-ring transfer indicates that the driver was either wearing the belt system loose on her person, or was seated with the seat adjusted to the most forward position.

The full frontal area of the Acura impacted the right side area of another vehicle as it passed through the four leg intersection. Although the Acura was repaired at the time of on-site inspection, the auto body repairman stated that the frontal structure sustained minimal crush (approximately 4-6") and that it was displaced laterally to the vehicle's right, indicating an 11 o'clock direction of force. The damaged parts were available for inspection. Direct contact damage was 57.25" that extended across the entire frontal plane. The contact damage also extended onto the hood face of the Acura. The hood, bumper, grille, both front fenders, and the radiator support panel were replaced. The preliminary repair estimate totalled \$10,260.

As a result of the crash, the Acura's driver air bag system deployed. The driver's face contacted the nontethered air bag. Facial contact evidence on the bag indicated that the steering wheel was probably rotated 180° when she contacted the bag. A lipstick transfer was noted 1-3" left of center and 3.75-4.5" above the horizontal center line. A faint makeup transfer (probable right eye makeup) was also noted 4.75-5.5" above the horizontal center line and .5" to the right to 1" left of the vertical center line. The suspected eye makeup transfer was located on a fold crease that extended horizontally across the bag. The face of the air bag contained 4 horizontal fold lines that were nearly evenly spaced on 4.5" centers. The driver's contact with the air bag resulted in a corneal abrasion or laceration (AIS-1). She was not wearing eyeglasses or contact lenses.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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TECHNICAL REPORT STANDARD TITLE PAGE

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91-1					
4. Title and Subtitle Calspan Limited On-Site Air Bag Deployment Investigation Fleet - 1988 Acura Legend LS Location - I			Report Date 1991 Performing Organization Code		
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National Highway Traffic Safet Washington, D.C. 20590	Administration		•	S. Sponsoring Agency Code	
15. Supplementary Notes Limited on-site investigation of an air bag deployment crash that involved a 1988 Acura Legend. The belted female driver sustained an eye injury from her contact with the air bag. 16. Abstract This limited on-site investigation focuses on a 1988 Acura Legend that was involved in a front-to-side impact sequence with a 1985 Cadillac. The Acura was under repair at the time of Calspan's inspection of the vehicle; however, the air bag system was intact and the damaged components were available. The Acura sustained approximately 4-6" of frontal crush which resulted in a sufficient longitudinal deceleration to deploy the driver air bag system. The driver of the Acura was a 50-year-old female, 61", 129 lbs. She was wearing the active 3-point lap and shoulder belt system. Her face contacted the deployed air bag depositing lipstick and makeup transfers near the center area of the nontethered bag. As a result of her facial contact, the driver sustained a left corneal abrasion with peripheral retina hemorrhage, edema of the conjunctiva, hemorrhage of the eyelid, and hemorrhage of the anterior chamber of the eye (hyphema). She also sustained superficial abrasions of the left neck and shoulder from loading the active belt system.					
17. Key Words Frontal impact Sufficient longitudinal deceleration Air bag deployment		18. Distribution Statement General Publ	•		
Corneal abrasion					
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CALSPAN LIMITED ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 91-1

FLEET - 1988 ACURA LEGEND LS LOCATION - OHIO

SUMMARY

This crash occurred at a four-leg intersection in 1991 at the hours. The case vehicle was a 1988 Acura Legend LS, 4 dr. sedan, that was equipped with a supplemental driver air bag system. The Acura was driven by a 50-year-old female, 61" tall with a weight of 129 lbs. She was wearing the active 3-point lap and shoulder belt system.

The driver of the Acura approached the four-leg intersection at an estimated speed of 35-40 mph; however, she decelerated to approximately 20-25 mph as she entered the intersection on a green signal phase. A 1985 Cadillac entered the intersection from the Acura's right against a red signal phase. The frontal area of the air bag equipped Acura impacted the left side area of the Cadillac. Resultant directions of force were probably within the 1 o'clock sector for the Acura and 10 o'clock for the Cadillac. The Acura sustained a sufficient longitudinal deceleration to deploy the vehicle's driver air bag system. Although the Acura was under repair at the time of the constant on-site investigation, the auto body technician estimated frontal crush at 4-6" at the right front corner. He further stated that the frontal structure was displaced laterally to the left 3-4".

The front to side impact configuration rotated the Acura in a counter-clockwise direction, possibly resulting in a minor sideslap involving the right front fender and door of the Acura and the left rear side area of the Cadillac. There was minimal contact damage on the right front fender and right front door of the Acura.

The driver of the Acura was in a normal seated position at impact with both hands on the steering wheel. The driver's seat was adjusted to a forward position. As the air bag deployed, the steering wheel probably rotated 180° counterclockwise due to a driver pre-crash steering input and lateral displacement of the vehicle at impact. The driver initiated a forward trajectory and loaded the active 3-point belt system. Her loading force on the shoulder belt webbing produced a black plastic transfer on the webbing from the B-pillar mounted D-ring. She sustained a superficial abrasion of the left neck and left shoulder from her loading of the active shoulder belt webbing. The driver's face contacted the deployed air bag depositing lipstick and makeup transfers on the air bag. The lipstick transfer was located 0-.75" below the horizontal centerline and 1-3" left of the vertical centerline. The makeup transfer (probably eye makeup) was located 4.75 - 5.5" above the centerline and extended from .5" right to 1" left of the vertical centerline. (All measurements were taken with the wheel rotated 180° from a straight ahead

position.) Both transfers were located on horizontal fold creases of the air bag. The driver sustained a left corneal abrasion (AIS-1) with peripheral retina hemorrhage, edema of the conjunction, hemorrhage of the eyelid, and of the anterior chamber of the eye (hyphema). She was not wearing eyeglasses or contact lenses.

Following the crash, the driver was transported to her husband's office (ophthalmologist) where he treated her injury with eyedrops. She experienced a brief loss of vision (2 days) and has since recovered fully from the injury.

CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 91-1

FLEET - 1988 ACURA LEGEND LS LOCATION - OHIO

ACCIDENT DATA

Location:

4-leg intersection

City/Township:

ОН

Area/Type:

Urban/Commercial

Accident Date/Time:

, 1991 hours

Investigating Police

Agency:

Patrol

Accident Type:

Car/Car, front to side impact configuration

Air Bag Vehicle

Driver Injury Severity:

Minor (AIS-1)

AMBIENCE

Viewing Conditions:

Daylight

Weather:

Clear

Precipitation:

None

Road Surface:

Dry

HIGHWAY

Air Bag Vehicle

Vehicle #2

Type:

road

route

Number of Lanes:

3

3

Surface:

Asphalt

Asphalt

Traffic Density:

Moderate

Moderate

Signals:

On-colors, overhead

signal system

Signs:

None pertinent

HIGHWAY (CONT'D.)

Air Bag Vehicle

Vehicle #2

Markings:

Yellow full barrier center

lines, solid white edgelines

35 mph Speed Limit:

35 mph

VEHICLES

Description:

1988 Acura Legend LS,

4 dr. sedan

1985 Cadillac Fleetwood,

2 dr. sedan

V.I.N.:

JH4KA4667J

Color:

White

Black

Odometer:

25,190.8 miles

Engine:

V-6, 2.7 liter

Transmission:

4-speed automatic overdrive, console mounted transmission

selector lever

Steering:

Power-assisted rack

and pinion

Brakes:

Power-assisted 4-wheel disc with anti-lock

Padding:

Upper, mid, and lower instrument panel, knee bolster, sunvisors, soft edged steering wheel rim and module cover, side door panels, door armrests, center console, adjustable

head restraints

Active Restraints:

3-point lap and shoulder belts in the four outboard seated positions, center rear lap belt. The front seat active belt systems were equipped with adjustable B-pillar mounted D-rings.

Passive Restraints:

Supplemental driver air bag system that deployed as a result of the vehicle's frontal impact sequence with

the left side area of

vehicle #2

VEHICLES (CONT'D.)

Air Bag Vehicle

Vehicle #2

Defects:

None

None

Tow Status:

Towed due to damage

Towed due to damage

VEHICLE DAMAGE

Air Bag Vehicle

Vehicle #2

Exterior:

The frontal area of the Acura Legend sustained moderate damage from its impact with the left side of vehicle #2. At the time of Calspan's on-site investigation, the vehicle was under repair with all damaged components replaced. The damaged components (bumper, fenders, and hood) were available for inspection.

Vehicle #2 reportedly sustained moderate damage to the left passenger compartment area.

Maximum crush was estimated by the technician as 4-6", located at the right corner of the front bumper. He also reported that the front frame rails were displaced laterally to the left approximately 3-4", indicating a direction of force within the 1 o'clock sector.

Direct contact damage began at the right corner of the bumper facia and extended 57.25" to the left. Contact damage also extended onto the right front fender and door that probably occurred from a minor secondary sideslap.

CDC:

Primary - 01-FDEW-1 Secondary - 03-LYEW-1 10-LPEW-3 (estimated 09-LBEW-1

Repair

Cost:

\$10,260.88 inclusive of air bag module and crash sensor replacement

Interior
(Air Bag
Vehicle):

The interior of the Acura Legend did not sustain residual damage from exterior deformation or occupant contact. The air bag module cover opened in an H-configuration at the designated tear points as the bag deployed. At the time of deployment, the steering wheel was probably rotated 180° counterclockwise due to a driver steering input and impact-induced lateral displacement of the vehicle. The driver's face loaded the

VEHICLE DAMAGE (CONT'D.)

Interior
(Air Bag
Vehicle)
(Cont'd.):

deployed air bag depositing lipstick and suspected makeup transfers on the face of the bag. The lipstick transfer was located 0-.75" below the horizontal centerline and 1-3" left of the vertical centerline. The makeup transfer (possible eye makeup) extended 4.75 - 5.5" above and .5" right to 1" left of the reference centerlines. All measurements were taken with the steering wheel rotated 180° from a straight ahead position.

The driver was wearing the active 3-point lap and shoulder belt system. At impact, the inertia reel locked as the driver loaded the belt webbing. His loading force on the shoulder belt webbing pulled the webbing through the B-pillar mounted D-ring which produced a diagonally orientated black plastic transfer on the webbing. The transfer was located 55" from the latchplate retainer button that was affixed to the webbing or, with the belt fully extended from the retractor, the transfer was located 10.25" below the D-ring. At impact, the driver was seated in a forward position, close to the steering wheel, with the belt nearly fully extended from the retractor.

The continuous loop belt webbing was not replaced by the body shop.

COLLISION SEQUENCE

Pre-Crash:

The Acura was traveling in a southerly direction at a driver estimated speed of 35-40 mph as she approached a four-leg intersection. She decelerated to approximately 20-25 mph as she entered the intersection on a green signal phase.

A 1985 Cadillac entered the intersection from the Acura's right against a red signal phase. The driver of the Acura probably steered in a counterclockwise direction and braked in an attempt to avoid impact. It was unknown if the driver of the Cadillac attempted avoidance action.

Crash:

The full frontal area of the Acura impacted the left passenger compartment area of the Cadillac. Resultant directions of force were probably within the 1 o'clock sector for the Acura and 10 o'clock for vehicle #2. The impact resulted in a sufficient longitudinal deceleration to deploy the Acura's driver air bag system. The driver contacted the deployed air bag and sustained injury to the left eye.

The Acura was rotated in a counterclockwise direction as it momentarily remained engaged with the Cadillac. Direct contact damage extended onto the right front fender and door, indicating a probable secondary sideslap with the left rear of vehicle #2.

COLLISION SEQUENCE (CONT'D.)

Post-Crash:

The vehicles separated and came to rest within the intersection. The driver of the Acura refused medical treatment and requested transportation to her husband's office. He, an ophthalmologist, examined her left eye and treated the injury with eyedrops.

HUMAN FACTORS/OCCUPANT DATA

Air Bag Vehicle #2

Driver: 50 year-old female 73 year old male

Height: 61"

Weight: 129 lbs.

Active Restraint 3-point lap and System Usage: shoulder belt system

Usage Source: Vehicle inspection, driver interview

Eyeglasses: None

Vehicle Familiarity: 2 years

Route Familiarity: Daily

Trip Plan: Business trip

Manner of Leaving Scene:

Type of Medical Treatment: Private opthalmologist

(driver's husband) hospital

Transported to a

AIR BAG DRIVER INJURIES

Injury Severity Source

Left corneal abrasion Minor (FLAO-1) Air bag with peripheral retina hemorrhage, edema of the conjunctiva, hemorrhage

of the anterior chamber of the eye (hyphema)

of the lid, and hemorrhage

left neck (no broken skin)

Superficial abrasion of the Minor (NLAI-1) Shoulder belt webbing

Superficial abrasion of the Minor (SLAI-1) Shoulder belt webbing

Superficial abrasion of the Minor (SLAI-I) Shoulder belt webbin anterior left shoulder

AIR BAG DRIVER KINEMATICS

The driver of the Acura Legend was in a normal seated position with both hands on the steering wheel. Her seat was adjusted to a forward position with the seatback set nearly vertical. The driver was wearing the active 3-point lap and shoulder belt system. Belt usage was evidenced by the presence of routine wear marks on the latchplate, interview data, injury data, and a black transfer on the belt webbing from loading against the left B-pillar mounted D-ring.

At impact, the supplemental driver air bag system deployed as the driver initiated a forward trajectory in response to the frontal impact. The steering wheel was probably rotated 180° counterclockwise due to a probable pre-crash driver steering input and the lateral displacement of the vehicle from the 1 o'clock impact force. The driver's face contacted the nontethered air bag, depositing lipstick and makeup transfers on the face of the air bag. The lipstick transfer was located 0 - .75" below the horizontal centerline and 1 - 3" left of the vertical centerline. (The transfers were measured with the steering wheel rotated 180° from a straight-ahead position.) The makeup transfer (possible eye makeup) extended 4.75 - 5.5" above the centerline and from .5" right to 1" left of the vertical centerline. Both transfers were located on horizontal fold creases.

As a result of the driver's facial contact with the deployed air bag, she sustained a left corneal abrasion with peripheral retina hemorrhage, edema of the conjunctiva, hemorrhage of the eyelid, and hemorrhage of the anterior chamber of the eye (hyphema). She was not wearing eyeglasses or contact lenses.

The driver loaded the active 3-point belt system as she initiated her forward trajectory. Her loading force on the shoulder belt webbing produced a black plastic transfer from the B-pillar mounted D-ring. The driver sustained superficial abrasions of the anterior left neck and shoulder from the shoulder belt webbing. The active and passive restraint systems were effective in preventing the driver from contact with additional interior components and potential further injury.

The driver rebounded into the left front seatback where she came to rest.

AIR BAG SYSTEM

The 1988 Acura Legend was equipped with a supplemental driver air bag system that deployed at impact. The air bag was of typical construction and was vented by two ports that measured 1.5" in diameter. The venting ports were located on the back side of the bag (side away from driver) at the 11 and 1 o'clock positions. There was no residue on the inside surface of the ports or on the steering assembly adjacent to the venting ports. The air bag measured approximately 24" in diameter (deflated) and had no internal tether straps. The deployed air bag had four (4) horizontal fold creases that were spaced approximately 4.5" apart. There were also seven (7) less visible vertical fold lines spaced on 3" centers. Lipstick and probable eye makeup transfers were visible on the face of the bag. Both transfers were located at the horizontal fold creases.

AIR BAG SYSTEM (CONT'D.)

The nontethered air bag was manufactured by the with the following identification stamped onto the bag:

SRS MODEL NO. MFG. DATE

The inflator assembly was manufactured by the following labeling:

DATE OF MFG.

PATENT NO.



Frontal Damage To The Acura Legend



Left Front Three-Quarter View Of The Repaired Acura Legend





Right Front Three-Quarter View Of The Acura Legend



Damaged And Replaced Frontal Components



Damage To The Bumper Facia And Reinforcement Bar



Hood Damage





Damaged Front Fenders



Overall Interior View Of The Deployed Air Bag
And Active 3-Point Belt Webbing



10.

Air Bag Identification Numbers

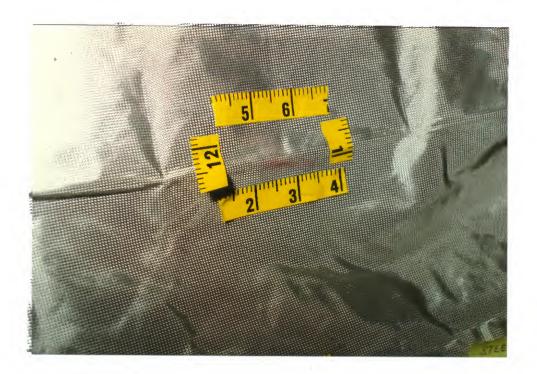


Driver Facial Contact (Lipstick And Makeup Transfers) To The Deployed Air Bag



Closeup Views Of The Facial Contacts





Eye Makeup Transfer On A Fold Crease



Closeup View Of The Lipstick Transfer



D-Ring Transfer On The Shoulder Belt Webbing From Driver Loading



Driver Knee Bolster, No Evidence Of Driver Contact

SLIDE INDEX

Slide No(s).	Description
1	Driver injury mannequin (REMOVED FOR SANITIZATION)
2	Frontal view of the repaired Acura Legend
3,4	Left front three-quarter views
5	Left side view
6 -	Right front three-quarter view
7	Perpendicular view of the right frontal plane
8	Overall view of the interior, deployed driver air bag, and active 3-point lap and shoulder belt webbing
9	Length of belt webbing that was extended at time of crash
10,11	Driver facial contact to air bag, lipstick and makeup transfers
12,13,	Closeup views of the transfers
14	Closeup view of the lipstick transfer
15	Closeup view of the eye makeup transfer on fold crease
16,17	D-ring transfer on belt webbing from driver loading













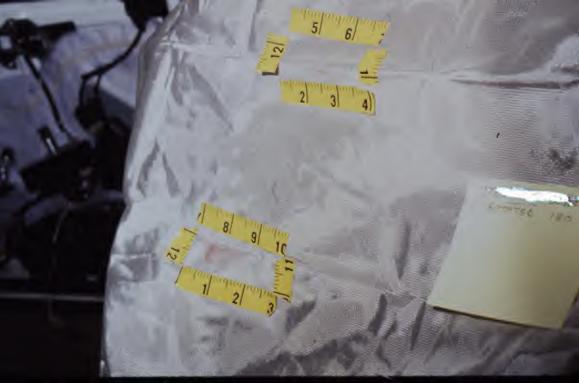


















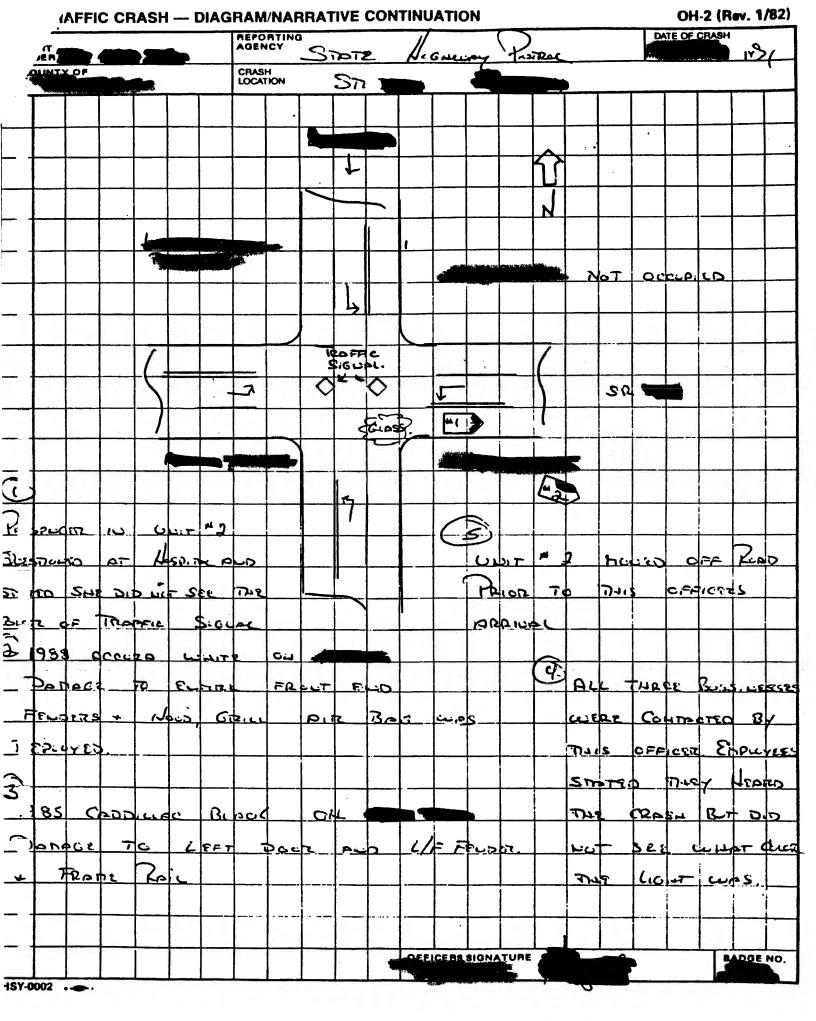


APPENDIX A

Police Accident Report

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2 COMPACT 17 3 MID SIZE 18 4 FULL SIZE TRUCK 18 5 PICKUP 20 6 PANEL/YAN 21 7 STRAIGHT TRUCK 8 STRAIGHT TRUCK 221 242 253 264 2654 2654 2654 2654 2654 2654 2654	BUS SCHOOL CHURCH PUBLIC BUS EMERGENCY POLICE VEHICLE FIRE TRUCK AMBULANCE/RESC OTHER	1 GOING 1 2 TURNIN 3 TURNIN 4 TURNIN 5 U TURN 6 STOPPE 7 STOPPE 7 STOPPE 8 PARKIN 9 PARKEC 10 BACKIN 11 PASSIN	G RIGHT G LEFT G ON RED LIGHT D TO TURN D IN TRAFFIC G/UNPARKING I G	PEDESTRIAN ACTIONS 18 CROSSING IN X-WALK 19 CROSSING OTHER THAN X-WALK 20 WALKING IN ROAD (WITH TRAFFIC) 21 WALKING IN ROAD (AGAINST TRAFFIC) 22 PLAYING IN ROAD 23 WORKING ON ROAD 44 ENTERING OR LEAVING VEHICLE 25 PUSHING/WORKING	DRIVER ERROR 1 NONE 2 FAILURE TO YIELD 3 UNSAFE SPEED 4 FOLLOWING TOO CLOSELY OR ACDA 5 RAN RED LIGHT 6 RAN STOP OR YIELD SIGN 7 IMPROPER TURN 8 IMPROPER PASSING 9 MPROPER LANE CHANGE	NON-DRIVER FACTOR 18 VEHICLE DEFECTS 19 LOAD SHIFTING 20 PAVEMENT DEFECT 21 SHOULDER DEFECT 22 DEBRIS ON ROAD 23 DOWNED TRAFFIC SIGN/DEVICE 24 VISION OBSTRUCTION 25 ANIMAL ACTIONS 26 PEDESTRIAN ACTIONS
9 TRUCK TRACTOR 40 TRACTOR & SEMITRAILER 21 TRACTOR &	MOTOR HOME TRAIN FARM VEHICLE FARM EQUIPMENT NOWNOBILE	RAMP 14 OUT OF 15 SWERV	G/EXITING CONTROL ING	ON VEH IN ROAD 26 OTHER IN ROAD 27 ON SIDEWALK OR SHOULDER	10 IMPROPER BACKING 11 IMPROPER START FROM PARKED POSITION 12 STOPPED OR PARKED ILLEGALLY	VEHICLE DEFECTS CODE IF CONTRIBUTING FACTOR IS 10
MOTORCYCLE 12 MC UP TO 350CC 13 MC351CC TO 750CC 14 MC OVER 751CC 14 MC OVER 751CC 24 MC OVER 751CC 25 MC351CC TO 750CC 26 MC351CC TO 750CC 27 MC OVER 751CC 28 MC351CC TO 750CC 29 MC351CC TO 750CC 20 MC351CC TO 750CC 21 MC MC351CC TO 750CC 22 MC351CC TO 750CC 23 MC351CC TO 750CC 24 MC OVER 751CC 25 MC351CC TO 750CC 26 MC351CC TO 750CC 27 MC351CC TO 750CC 28 MC351CC TO 750CC 29 MC351CC TO 750CC 20 MC351CC TO 750CC 21 MC MC OVER 751CC 21 MC MC OVER 751CC 22 MC	CONSTRUCTION E MANIMAL W/RIDER ANIMAL W/BUGGY BICYCLE ALL OTHERS	TRAFFIC	DRY ACTIONS	FIXED A B OBJECT STRUCK 1	13 LEFT OF CENTER 14 FAILURE TO CONTROL 15 DRIVER INATTENTION 16 DROVE OFF ROAD REASON UNKNOWN 17 OTHER DRIVER ERROR	PRIMARY
SPEED	MC HELMET U	SE 2 STOP S	IGN JIGN	1 NONE 2 UTILITY POLE 3 TRAFFIC SIGN 4 BRIDGE/CULVERT	TRUCK A B	SECOND-
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PLEASE CHECK TO SEE THAT ALL BOXES ARE CLEAR ENOUGH TO BE MICROFILMED.	1 NO HELMET 2 FULL COVERAG 3 FULL FACIAL CO 4 OTHER TYPE HI	PE DVER 14 NO CO	DESTRIAN	14 CONSTRUCTION SARRICADE 15 FIRE HYDRANT 16 OTHER OBJECT	TRUCK AXLES TRACTOR-TRAILER RIGS	10 DISABLED FROM PRIOR ACCIDENT 11 OTHER DEFECTS



DATE OF CRASH REPORTING AGENCY AL ORT MBER

FOR LOCAL USE ONLY — DO NOT SUBMIT TO THE STATE EXCEPT FOR FATAL CRASHES

	HEREBY MAKE THIS VOLUNTARY STATEMENT TO
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(OFFICERS NAME)	(LOCATION)
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REPORTING.



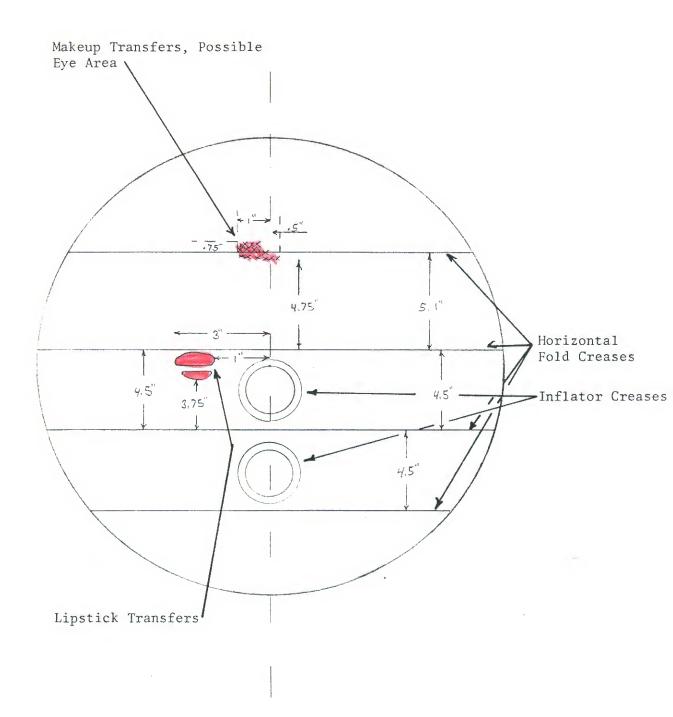
DATE OF GRASH

FOR LOCAL USE ONLY — DO NOT SUBMIT TO THE STATE EXCEPT FOR FATAL CRASHES

HEREBY MAKE THIS YOLUNTARY STATEMENT TO
(LOCATION)
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ANS PROUT DO 25 HPM.
•
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24 BEST AVAILABLE COPY

APPENDIX B

Air Bag Contact Schematic



APPENDIX C

Auto Body Repair Estimate

Pace

HER WITH HIDE THE 400 H ... H ... H ... H ... H

STREET.

SPECIALIZING IN IMPORT BODY REPAIR

Vehicle Owner:

Date of Loss:

Work: Home:

Vehicle:

88 ACURA LEGEND

62 AS Mileage: Vehicle ID Number JH4KA4667JC

Insurance:

____Labor----- DAMAGE REPORT Written By Metl Mech Othr Paint I t com C 1. Remove & Replace FRONT BUMPER COVER 217.26 2.3 18.18 C 2. Remove & Replace FRONT BUMPER LIC. PLATE FRAME & BRACKET 0.2 21.39 C 3. Remove & Replace RIGHT FRONT FOG LAMP COVER C 4. Remove & Replace FRONT BUNPER IMPACT ABORS 54.98 172.27 C 5. Remove & Replace FRONT BUMPER REINFORCEMENT BAR 43.52 C 6. Remove & Replace FRONT BUMPER LEFT & RIGHT STAY -6.74 C 7. Remove & Replace FRONT BUMPER LEFT & RIGHT BUMPER CAP 21.44 C 8. Remove & Replace FRONT BUNPÉR LÉFT, & RIGHT SLIDE BRACKET 43.77 C 9. Remove & Replace FRONT BUMPER AIR SPOILER 0.5 74.59 C 10. Remove & Replace GRILLE C 11. Remove & Replace GRILLE EMBLEM 0.2 11.50 46.58 0.2 C 12. Remove & Replace GRILLE MOULDING 23.22 0.3 C 13. Remove & Replace AC AMBRENT SENSOR 0.4 C 14. Aim Head Lights 190.00 0.2 C 15. Remove & Replace RIGHT H/L ASSY. 190.00 0.2 C 16 Remove & Replace LEFT H/L ASSY. 10.90 C 17. Remove & Replace RIGHT SIGNAL LAMP LENS C 18. Remove & Replace LEFT SIGNAL LAMP LENS 10.90 66.40 0.3 C 19. Remove & Replace RIGHT PARK SIDE MARKER ASSY. 66.40 0.3 C 20. Remove & Replace LEFT PARK SIDE MARKER ASSY. 511.65 1.7 C 21. Remove & Replace RADIATOR 18.00 C 22. Remove & Replace COOLANT C 23. Remove & Replace FAN SHROUD 61.73 1.3 24.42 C 24. Remove & Replace FAN BLADE 156.29 C 25. Remove & Replace FAN MOTOR 95.10 0.8 C 26. Remove & Replace WASHER BOTTLE ASSY. 67.40 0.3 C 27. Remove & Replace AIR CLEANER AIR FLOW TUBE 346.59 0.9 C 28. Remove & Replace A/C CONDENSER C 29. Remove & Replace A/C RECHARGE & FREON 24.00 1.4 0.7 82.02 C 30. Remove & Replace A/C RECEIVER DRIER 21.71 E 31. Remove & Replace A/C COOLING FAN 159.30 C 32. Remove & Replace A/C COOLING FAN MOTOR 53.48 C 33. Remove & Replace A/C FAN SHROUD 279.74 1.5 C 34. Remove & Replace HOOD 0.4 0.4 C 35. Remove & Replace HOOD HINGES LT. & RT. 38.52 17.58 0.3 C 36. Remove & Replace HOOD LATCH



	DAMAGE REPORT Written By							
	Item		P' T	1 7 6.64	Metl	Mech	Othr	Paint
	Remove & Replace SAFETY HOOD LATCH			17.12				
38	Remove & Replace RIGHT HOOD PROP ROD STOCK		\$	52.50	0.2			
39.	Remove & Replace HOOD INSULATOR RETAINERS	.*	\$	30 - 60				
2 40	Remove & Replace HOOD INFO LABELS		\$	16.00	0.6			
41.	Remove & Replace RIGHT FENDER		\$	207.00	2.3			2.6
42	Remove & Replace RIGHT FENDER SIDE MOULDING		\$	19.26				
2 43.	Remove & Replace RIGHT FRONT FENDER CHROME HOULDING		\$	16 - 43				
3 44 .	Remove & Replace RIGHT REAR FENDER CHROME MOULDING		\$	16.43				
	Remove & Replace RIGHT FENDER W/O HOULDING		\$	23.46	•			
	Stripe RIGHT FENDER		\$	10.00				0.5
	Repair & Straighten RIGHT APRON				5.5			1.1
	Remove & Replace MOULDING CLIPS		\$	20.00				
C 49	Remove & Replace LEFT FENDER	•	\$	207.00	2.3			2.6
	Remove & Replace LEFT REAR FENDER MOULDING CHRONE		\$	16.43				
	Remove & Replace LEFT FENDER W/O MOULDING		•	23.46				
	Remove & Replace LEFT FENDER PIN STRIPE		\$	10.00	0.5			
	Repair & Straighten LEFT APRON		•	10.00	6.5			1.1
C 54	•				6.0			2.0
	Remove & Replace RADIATOR SUPPORT		•	193.66	6.0			1.5
	Repair & Straighten LEFT DOOR		•					
	Remove & Replace LEFT DOOR PIN STRIPE			10.00			· * (15 (le)	1.0
	Renove & Replace REAR BUMPER COVER		\$	10.00 217.26	0.5 1.8			2.7
C 59.	•		•	£17.20	1.0			2.7
					1.0			1.5
	Refinishing Requires BLEND ADJ. PANELS			/E AA	•			1.5
C 61.			\$	45.00				
C 62.			\$	623.04				
C 63	•		\$	361.00			41	
C 64.			\$	439.98				
C 65.			\$	76 - 00				
C 66.	• • • • • • • • • • • • • • • • • • • •							
C 67.	Sublet Repairs DEALER CHECK DIAGNOSTIC EDUIPMENT	·•	•	50.00				
C 68.	Sublet Repairs REGLAZE		\$	105.00				
	Bench Hount						4.0	
C 70.	Structurally Align UNIBODY						8.0	
C 71.	ADD'L PAINT LABOR CLEAR COAT PAINT							7.3
C 72.	Paint Material Supplies	1	\$	380 - 40				
C 73.	Extra Material Charge for RUSTPROOFING		\$	66.00				
C 74.	Extra Material Charge for FLEX		. \$	15.00				
	hazardous waste removal		\$	10.00	-			
C 75	METELOORS MESTE LEWOAGT		•					

Damage Report



--- DAMAGE REPORT Written By

BERESSEE BERESSEE BERESSEE DAMAGE REPORT SUMMARY FOR BERESSEE BERESSEE

126.00 4.2 hours @ \$ 30.00 per hour MECHANICAL LABOR #

METAL LABOR \$

1.175 20 45.2 hours @ \$ 26.00 per hour

STRUCTURAL LABOR \$

-360.00 12.0 hours @ \$ 30.00 per hour

PAINT LABOR \$ 837.20

32.2 hours @ \$

26.00 per hour

PARTS \$ 5,427.20

PAINT MATERIALS \$ 461.40 2

> TOWING \$ 90.00 /

SUBLET # 637.00

SALES TAX \$ 451.20

DAMAGE REPORT TOTAL \$ 9,565,20

Insurance Pavable Repair Total

0.00

Customer Payable, including Deductible # 9.565.20

956520450

Yes

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Vehicle Owner:

dd'1 METAL LABOR

0.5 Hrs

Work: Home: Date of Loss: Vehicle:

88 ACURA LEGEND

62 AS

Mileage: 25190 Vehicle ID Number Insurance:

(800)

Policy: Claim No:

Date of Los	5.5:		667J		Claim No		
- SUPPLEMENT E	31 <u>1.1.</u> Writ				Actual	Diff	App'd
Remove & Replace	FRONT	BUMPER LIC. PLATE FRAME & BRA	·\$,	18.18_\$	24 82 \$	6 - 64	Yes
RE We & Replace	FRONT	BUMPER REINFORCEMENT BAR	#	172.27 4	244.05 \$	_71.79	Yes
Remove & Replace		HODD LATCH	4;	17.58 \$, . 58.81 \$	41.23	Yes
Re we & Replace	RIGHT	FENDER W/O MOULDING	16 ·	23.46 \$	32.44 \$	8.98	Yes
Remove & Replace	LEFT REAR	FENDER MOULDING CHRONE	\$	16.43 \$	23.35 \$	6.92	Yes
Remove & Replace	LEFT	FENDER 4/0 MOULDING	4;	23.46 \$	32.44 \$	8.98	Yes
Re ive & Replace Jd'l MECHANICAL LABOR	0.7 Hr	UPPER AIR CONDITIONING LINE 3	\$	\$	36.67 \$	36 - 67	Yes Yes
Re tve & Replace Id'l MECHANICAL LABOR	0.7 Hr	LOWER AIR CONDITIONING LINE	46	4 i	106.44 \$	106 - 44	Yes Yes
Remove & Replace id'l METAL LABOR	0.7 Hr	LOWER RADIATOR HOSE	41		11 97 #	11.37	Yes Yes
Remove & Replace id'l METAL LABOR	FRONT 0.8 Hr	HOTOR HOUNT	·#5	···· \$, 70.97 \$	70.97	Yes Yes
Remove & Replace dd'l METAL LABOR	LEFT 0.6 Hr	AIR TUBE INTAKE	4;	1	13.89 \$	13.89	Yes Yes
Remove & Replace	RIGHT .	HOOD LATCH PLATE	\$	4	18.03 \$	18.03	3 Yes
R ove & Replace	RIGHT	LAMP TURNING ASSY.	4	-	42.65 \$	42.65	5 Yes
Remove & Replace	RIGHT	INNER FENDER SKIRT	\$	#	36.07 \$	36.07	Yes

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Repair Order



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Rei /e & Replace ij^l HETAL LABOR	LEFT 0.5	INNER FENDER SKIRT Hts	\$	•	43	36.07	#	36.07	Yes Yes
er /e & Reolace / 3'l METAL LABOR	RIGHT 0.2	RADIATOR SEAL Hts	4);		fi	11.33	\$	11.33	Yes Yes
ernve & Replace	LEFT 0.2	RADIATOR SEAL HTS	. 49		\$	11.33	#	11.33	Yes Yes
		414.4 A419 MS 4 A179.5 C11111							
		SUPPLEME: Company	NT BILL S	SUMMAR.	Y 155 (00 00 00 00	ern ern een om ton jan der	:::: 112 1 1731		2011 2011 2021 20 W TAN
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Acproved by 1	Insurance L Parts Se Increas L MECHANIO	Company se CAL LABOR	1	·(s) @	\$ 28 .	00/hr			3 0